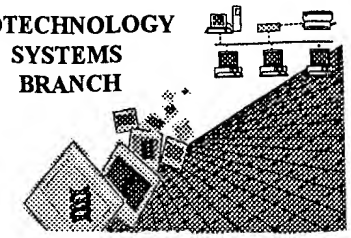
0570
1714

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/864,954C
Source: OIPE
Date Processed by STIC: 11/21/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**>, **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
   Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

OIPE

RAW SEQUENCE LISTING DATE: 11/21/2002
PATENT APPLICATION: **US/09/864,954C** TIME: 10:55:46

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\11212002\I864954C.raw**

<110> APPLICANT: Sepp Kaul
Josef Preiherr (Deceased)
Ulrich Weidle
<120> TITLE OF INVENTION: A nucleic acid which is upregulated in human tumor cells, a protein encoded thereby and a process for tumor diagnosis
<130> FILE REFERENCE: Case 20678
<140> CURRENT APPLICATION NUMBER: US/09/864,954C
<141> CURRENT FILING DATE: 2001-05-24
<150> PRIOR APPLICATION NUMBER: EP00110953.7
<151> PRIOR FILING DATE: 2000-05-26
<150> PRIOR APPLICATION NUMBER: EP00115369.1
<151> PRIOR FILING DATE: 2000-07-15
<160> NUMBER OF SEQ ID NOS: 12
<170> SOFTWARE: PatentIn Ver. 2.1
<210> SEQ ID NO: 1
<211> LENGTH: 2342
<212> TYPE: DNA
<213> ORGANISM: Homo sapiens
<220> FEATURE:
<221> NAME/KEY: CDS
<222> LOCATION: (459)..(848)
<400> SEQUENCE: 1

Does Not Comply
Corrected Diskette Needed

P.5

```
aacctccacc acaacgctca cccttacaga cacactattg caggtctccg agggcctttg 60
ggaggccctg cttcctgcga gctgtcccgg caggacagag actcttcccg ccgcggccct 120
gccattccag gctgaggctg tgagcagcac catgacaagc tccggccgca gtggctctca 180
acagtgtggg tctctgacca cccgacgagc tggaagtgca gaccgctgac ctcccttgag 240
aacctactgg gttcttgcag taggctcctc agcggtgtct aaacacgcca ctcaggtgat 300
tctatgcacc atcacattgg aaacttttt cattgactgt tacttaatga gaagacttcc 360
ctccgggatg gttctgaagc ttccttcata ggagcaagcc tttggcggag agcactgagc 420
agacgtgcag catctttgct ggcttctacc gaaacacc atg gat cca gac gtg gtt 476
                                        Met Asp Pro Asp Val Val
                                          1               5
ttg tgg tcc tgc acg tgg aag cca gcc ctg cgt ggg gtg agc ctg gga   524
Leu Trp Ser Cys Thr Trp Lys Pro Ala Leu Arg Gly Val Ser Leu Gly
             10                  15                  20
ctg tgg gca gag aac ctc aag cac cgg gcc ggc acc caa gtg cag aga   572
Leu Trp Ala Glu Asn Leu Lys His Arg Ala Gly Thr Gln Val Gln Arg
         25                  30                  35
ctg cat cgt ccc agc agg agg cgc tgc ttc cag gct ccc tgg acg gac   620
Leu His Arg Pro Ser Arg Arg Arg Cys Phe Gln Ala Pro Trp Thr Asp
     40                  45                  50
tcc ggg agg gcg gcc ttt ccc ccc agc ccc aga ggt ggg cct gcc ctt   668
```

RAW SEQUENCE LISTING DATE: 11/21/2002
PATENT APPLICATION: **US/09/864,954C** TIME: 10:55:46

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\11212002\I864954C.raw**

```
69 Ser Gly Arg Ala Ala Phe Pro Pro Ser Pro Arg Gly Gly Pro Ala Leu
70  55                  60                  65                  70
72 ttc cga gca tgg gac aca gcc cag gaa aac gca tgg ctt gtc ctc cag   716
73 Phe Arg Ala Trp Asp Thr Ala Gln Glu Asn Ala Trp Leu Val Leu Gln
74                  75                  80                  85
76 aca cag gtg cta aca ggg ccg tca gac aag ggc cag gga ctc agg ctt   764
77 Thr Gln Val Leu Thr Gly Pro Ser Asp Lys Gly Gln Gly Leu Arg Leu
78              90                  95                 100
80 tta gga att tca gct cca gag cca cca tgc agt ggg acc agg ggt ctg   812
81 Leu Gly Ile Ser Ala Pro Glu Pro Pro Cys Ser Gly Thr Arg Gly Leu
82         105                 110                 115
84 cgt gga cag gaa gca agc tgt gta gac ggg ggt cca tgaagtagag        858
85 Arg Gly Gln Glu Ala Ser Cys Val Asp Gly Gly Pro
86     120                 125                 130
88 acagggtttt ggggaaggtt ggggcagggc aaggaggaaa agccacattt acagcaattt 918
90 ctgaagtctt ttcatttttt ccccctgaat cacgtccata ataggatttg aatttaataa 978
92 actgctgaag gttcctggcc ctgagtccca gtgtcctccc agcccccgcc cagctgtggg 1038
94 tgtgcatggg gagcggtacg agggagggta aaatgggccc ctgggacgcc gcgtgcagag 1098
96 cagagatgaa tggcccgaaa ccctcgcgct gctctgcgcc cttcgtcatc cagtcggggt 1158
98 ggttagggac tgtcagagaa aaataattta gcggccatgg ctctaactga tgtgctgcat 1218
100 tctggggtca aatgactttt acaaagtagt agtgctgcct ggtttctcta tcgtgagagc 1278
102 tcagggctga taacatgaaa gaaaaaggca ctgcagccag aattcactga cattcttcac 1338
104 atttcacatg agtgggacgc aggaggggcg ctggggaggg tggagggatg tttcctgctt 1398
106 aacagattca acagaagagt ggcaggctca gctgggtgag caaggtatcc cagcgacggg 1458
108 ggacacgccc cagaccatgg gtggtggggc ttctcagagg aggtggcagg agacccgagc 1518
110 ctgccaaggt tgcacctaag gtcacgggca gcattaggag ggctctctcc cagtctcccc 1578
112 acccccccgt ccccctccc ccaggctgca ggggtgaagt ggcttccagg acggtcactg 1638
114 gcaagtttaa gctacagaga gtgtagaaac agggtgaaaa aggaagagag aggggagtaa 1698
116 ataagaagga ggtgtaagaa aagaccaagc caggccccag cgcccttgtg aggaagtgcc 1758
118 cagggactta tgtggaagcc gtccttgctg tctgccacct tgtttttact tacattgtgt 1818
120 ttttatttga gggcgagttt ggacggcaag actgatggag attgtggtct aaatgcctct 1878
122 aacccactcc ttaaaatgac caccggatgt tccacaagta cttgaaaatg aatgaatggc 1938
124 ttcccgagag gcagaaggca ggggtgtgcc ctaccccacg ccggccaaga gttcaacaag 1998
126 cattggttga caagtgaata gtgagcactt gaacccagtc acaattcaag atgagggctc 2058
128 tgccatgacg catgtggtct gtgtcaccct gcagtctccc tgagcagtgt ctgaggttcg 2118
130 agtgggaccc tacattcgtg aagagattta tcatctcccc aggaaaaata acagattctg 2178
132 tcctaggtgt tgtgatgtaa caatggtagc gatcacagcc ataacttaca attattgcat 2238
134 acttacgacg agtcccgcac tgggctaagt gctttttaac tatgtgaaat gtttctttcc 2298
136 ttgattgatg ccaaaatgaa taaagataat tttctgtatc tgct                  2342
139 <210> SEQ ID NO: 2
140 <211> LENGTH: 130
141 <212> TYPE: PRT
142 <213> ORGANISM: Homo sapiens
144 <400> SEQUENCE: 2
145 Met Asp Pro Asp Val Val Leu Trp Ser Cys Thr Trp Lys Pro Ala Leu
146   1               5                  10                  15
148 Arg Gly Val Ser Leu Gly Leu Trp Ala Glu Asn Leu Lys His Arg Ala
149              20                  25                  30
151 Gly Thr Gln Val Gln Arg Leu His Arg Pro Ser Arg Arg Arg Cys Phe
```

RAW SEQUENCE LISTING DATE: 11/21/2002
PATENT APPLICATION: **US/09/864,954C** TIME: 10:55:46

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\11212002\I864954C.raw**

```
152          35                  40                  45
154 Gln Ala Pro Trp Thr Asp Ser Gly Arg Ala Ala Phe Pro Pro Ser Pro
155      50                  55                  60
157 Arg Gly Gly Pro Ala Leu Phe Arg Ala Trp Asp Thr Ala Gln Glu Asn
158  65                  70                  75                  80
160 Ala Trp Leu Val Leu Gln Thr Gln Val Leu Thr Gly Pro Ser Asp Lys
161                  85                  90                  95
163 Gly Gln Gly Leu Arg Leu Leu Gly Ile Ser Ala Pro Glu Pro Pro Cys
164             100                 105                 110
166 Ser Gly Thr Arg Gly Leu Arg Gly Gln Glu Ala Ser Cys Val Asp Gly
167         115                 120                 125
169 Gly Pro
170     130
174 <210> SEQ ID NO: 3
175 <211> LENGTH: 285
176 <212> TYPE: DNA
177 <213> ORGANISM: Homo sapiens
179 <220> FEATURE:
180 <221> NAME/KEY: CDS
181 <222> LOCATION: (1)..(285)
183 <400> SEQUENCE: 3
184 atg gat cca gac gtg gtt ttg tgg tcc tgc acg tgg aag cca gcc ctg   48
185 Met Asp Pro Asp Val Val Leu Trp Ser Cys Thr Trp Lys Pro Ala Leu
186   1               5                  10                  15
188 cgt ggg gtg agc ctg gga ctg tgg gca gag aac ctc aag cac cgg gcc   96
189 Arg Gly Val Ser Leu Gly Leu Trp Ala Glu Asn Leu Lys His Arg Ala
190              20                  25                  30
192 ggc acc caa gtg cag aga ctg cat cgt ccc aac agg agg cgc tgc ttc   144
193 Gly Thr Gln Val Gln Arg Leu His Arg Pro Asn Arg Arg Arg Cys Phe
194          35                  40                  45
196 cag gct ccc tgg acg gac tcc ggg agg gcg gcc ttt ccc ccc agc ccc   192
197 Gln Ala Pro Trp Thr Asp Ser Gly Arg Ala Ala Phe Pro Pro Ser Pro
198      50                  55                  60
200 aga ggt ggg cct gcc ctt ttc cga gcg tgg gac aca gcc cag gaa aac   240
201 Arg Gly Gly Pro Ala Leu Phe Arg Ala Trp Asp Thr Ala Gln Glu Asn
202  65                  70                  75                  80
204 gca tgg ctt gtc ctc cag aca cag ggc gag ttt gga cgg caa gac       285
205 Ala Trp Leu Val Leu Gln Thr Gln Gly Glu Phe Gly Arg Gln Asp
206                  85                  90                  95
209 <210> SEQ ID NO: 4
210 <211> LENGTH: 95
211 <212> TYPE: PRT
212 <213> ORGANISM: Homo sapiens
214 <400> SEQUENCE: 4
215 Met Asp Pro Asp Val Val Leu Trp Ser Cys Thr Trp Lys Pro Ala Leu
216   1               5                  10                  15
218 Arg Gly Val Ser Leu Gly Leu Trp Ala Glu Asn Leu Lys His Arg Ala
219              20                  25                  30
221 Gly Thr Gln Val Gln Arg Leu His Arg Pro Asn Arg Arg Arg Cys Phe
```

RAW SEQUENCE LISTING DATE: 11/21/2002
PATENT APPLICATION: US/09/864,954C TIME: 10:55:46

Input Set : A:\EP.txt
Output Set: N:\CRF4\11212002\I864954C.raw

```
222          35                  40                  45
224 Gln Ala Pro Trp Thr Asp Ser Gly Arg Ala Ala Phe Pro Pro Ser Pro
225      50                  55                  60
227 Arg Gly Gly Pro Ala Leu Phe Arg Ala Trp Asp Thr Ala Gln Glu Asn
228  65                  70                  75                  80
230 Ala Trp Leu Val Leu Gln Thr Gln Gly Glu Phe Gly Arg Gln Asp
231                  85                  90                  95
235 <210> SEQ ID NO: 5
236 <211> LENGTH: 19
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: Description of Artificial Sequence:primer GSP1
243 <400> SEQUENCE: 5
244 ttatctttat tcattttgg                                              19
247 <210> SEQ ID NO: 6
248 <211> LENGTH: 23
249 <212> TYPE: DNA
250 <213> ORGANISM: Artificial Sequence
252 <220> FEATURE:
253 <223> OTHER INFORMATION: Description of Artificial Sequence:primer GSP2
255 <400> SEQUENCE: 6
256 tgcgggactc gtcgtaagta tgc                                          23
259 <210> SEQ ID NO: 7
260 <211> LENGTH: 20
261 <212> TYPE: DNA
262 <213> ORGANISM: Artificial Sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Description of Artificial Sequence:primer AUAP
267 <400> SEQUENCE: 7
268 ggccacgcgt cgactagtac                                              20
271 <210> SEQ ID NO: 8
272 <211> LENGTH: 19
273 <212> TYPE: DNA
274 <213> ORGANISM: Artificial Sequence
276 <220> FEATURE:
277 <223> OTHER INFORMATION: Description of Artificial Sequence:primer RTR-5
279 <400> SEQUENCE: 8
280 ccattcattc attttcaag                                              19
283 <210> SEQ ID NO: 9
284 <211> LENGTH: 17
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial Sequence
288 <220> FEATURE:
289 <223> OTHER INFORMATION: Description of Artificial Sequence:primer RTF-6
291 <400> SEQUENCE: 9
292 aaaacgcatg gcttgtc                                                 17
295 <210> SEQ ID NO: 10
296 <211> LENGTH: 25
```

RAW SEQUENCE LISTING DATE: 11/21/2002
PATENT APPLICATION: **US/09/864,954C** TIME: 10:55:46

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\11212002\I864954C.raw**

297 <212> TYPE: DNA
298 <213> ORGANISM: Artificial Sequence
300 <220> FEATURE:
301 <223> OTHER INFORMATION: Description of Artificial Sequence:_-actin reverse
302 primer
304 <400> SEQUENCE: 10
305 agggtacatg gtggtgccgc cagac 25
308 <210> SEQ ID NO: 11
309 <211> LENGTH: 25
310 <212> TYPE: DNA
311 <213> ORGANISM: Artificial Sequence
313 <220> FEATURE:
314 <223> OTHER INFORMATION: Description of Artificial Sequence:_-actin forward
315 primer
317 <400> SEQUENCE: 11
318 ccaaggccaa ccgcgagaag atgac 25
321 <210> SEQ ID NO: 12
322 <211> LENGTH: 127
323 <212> TYPE: DNA
324 <213> ORGANISM: Homo sapiens
326 <220> FEATURE:
327 <223> OTHER INFORMATION: fragment of sequence AQ548392, nuclotide 1
328 correspond to nucleotide 304 and nucleotide 127
329 correspond to nucleotide 430 of the complete
330 sequence
332 <300> PUBLICATION INFORMATION:
333 <308> DATABASE ACCESSION NO: AQ548392 → <3097 ← insert this mandatory numeric identifier and response whenever <3087 has a response
M:\E -> 335 **<300> PUBLICATION INFORMATION: 12**
336 tggacccccg tctacacagc ttgcttcctg tccactcaga cccctggtcc cactgcatgg 60
337 tggctctgga gctgaaattc ctaaaagcct gagtccctgg cccttgtctg acggccctgt 120
338 tagcacc 127

VERIFICATION SUMMARY DATE: 11/21/2002
PATENT APPLICATION: **US/09/864,954C** TIME: 10:55:47

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\11212002\I864954C.raw**

L:14 M:270 C: Current Application Number differs, Replaced Application Number
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:335 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:12